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In Vivo Gold Complex Catalysis within Live Mice

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Abstract

© 2017 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim Metal complex catalysis within biological systems is largely limited to cell and bacterial systems. In this work, a glycoalbumin–Au III complex was designed and developed that enables organ-specific, localized propargyl ester amidation with nearby proteins within live mice. The targeted reactivity can be imaged through the use of Cy7.5- and TAMRA-linked propargyl ester based fluorescent probes. This targeting system could enable the exploitation of other metal catalysis strategies for biomedical and clinical applications.

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Keywords

amide bond formation, fluorescent labeling, glycoalbumin, gold catalysis

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